### **INDEX**

#### ADDICTION

central nervous system, 340 conditioning of smoking habit, 78-79, 340, 342 development of smoking habit, 333-334 health warnings, recommendations, 486 historical perspective, 329-330, 340-342 National Institute on Drug Abuse, research programs, 399 nicotine, psychosocial and pharmacologic forces, 331, 334, 340, 342 public beliefs about tobacco use, 200, 216 relationship to price elasticity, 537 withdrawal symptoms, 343-344

#### **ADOLESCENTS**

227-229

536-539

396, 398, 407-408

access to tobacco, 235, 238, 596-604, 606 advertising effects, 339, 503-504, 660 behavioral risk factors compared with smoking, beliefs, 215 beliefs about smoking, 212-215, 216, 222-223 cessation attempts, British and American teenagers, 596 cigarette consumption, 660 developmental stage models, peer pressure and coping patterns, 386 drug and alcohol use vs. smoking, beliefs. 214, 215 free tobacco product samples, 597 High School Seniors Surveys, 302-303. 306 initiation of smoking, 215, 296-297, 333-335, 537-539 knowledge about smoking and smokeless tobacco use, 217, 221, 222-223 parental and peer influences, 336-338, 389, 390 perceptions about smokers their own age,

prevention of smoking, programs, 394-

price elasticity of demand for cigarettes,

psychosocial curricula, 385, 389, 390

smokeless tobacco and oral neoplasm risk, 217, 218 smoking cessation programs, 392–393 social trends and smoking prevalence, 409 Surgeon General's Reports, smoking prevention, 400-401

#### ADULT USE OF TOBACCO SURVEYS (AUTSs)

airplane smoking restrictions, 573 employee smoke exposure after restriction implementation, 594 cigar and pipe smoking, 322, 326-328 methodology and scope, 246-247 public service announcements, 497 smokeless tobacco use, 319-321 smoking continuum of quitting process, 286, 288-289, 292 smoking prevalence, 266, 271-272 tar yields of cigarettes, 315 tobacco use, 359 workplace smoking policies, prevalence, 582

#### **ADVERTISING**

#### (See also PROMOTION)

broadcast bans, 511, 514, 660-661

Cigarette Advertising Code, 511

consumption effects, 501-503, 514, 660-661 decreased motivation to stop smoking, 502 disincentives, 516 expenditures, 499-500, 503, 507, 514, 661 Fairness Doctrine, application to cigarettes, 414-415 Federal Trade Commission action against R.J. Reynolds, 512 Federal Trade Commission guidelines for evaluation, 510-511 guidelines, cigarette smoke constituents, 488-490 health warnings, 476, 479, 483-484 imagery and content regulation, proposals, 515

initiation of smoking, 501 legibility of advertisements, 483-484 low-tar and -nicotine cigarettes, 665 market maturity and segmentation, strategy, 506 preemption of State and local restrictions, 512 public health impact, 501 public transit bans, 513, 514-515 recall by children, effect on smoking behavior, 505-506 recidivism, 502 regulation of health claims by cigarette manufacturers, 510 restrictions or prohibition, 178, 239-240, 515-516 revenues, media coverage, 508-510 stadium ban, Minneapolis, 513 teenager targets, 338-339, 503-504 tobacco industry questions about harmfulness of smoking, 511-512

#### ADVOCACY

American Lung Association, 417, 442 attempts to shift public perceptions, 436–437

Coalition on Smoking OR Health, 439, 440, 443

Comprehensive Smoking Education Act of 1984, 437

educational and behavioral programs, policy initiatives, 383

Fairness Doctrine, antismoking lobbying, 441–442

National Commission on Smoking and Public Policy, 443

National Interagency Council on Smoking and Health, 437–438

nonsmokers' rights movement, 415, 442–443, 558

objectives, 437-439

organizational characteristics of smoking control groups, 432-440

State and local antismoking lobbying, 444 Tobacco-Free America Project, 383

#### AGE FACTORS

adult smokers and ex-smokers at risk, 134–137

Alameda County Study, mortality, 41 antismoking campaign effects among birth cohorts, 651–657

cigar and pipe smoking, 327-328

coronary mortality, sex ratio, 144–145 initiation of smoking, 296–300, 537–539 lung cancer mortality, sex ratio, 143–144

mortality postponed or avoided, 667, 668, 669 smokeless tobacco use, males, 322–324

smokeless tobacco use, males, 322–32 smoking continuum, 289, 291, 292 statistical analysis and relative risk,

tar yields or menthol cigarettes, 316

#### ANTISMOKING CAMPAIGNS

women, 127

American Cancer Society, 414
American College of Chest Physicians, 419–420

American Heart Association, 414
American Medical Association, 418–420
Coalition on Smoking OR Health, 418
Department of Defense, 425–427, 575

Doctors Ought to Care, 419

Fairness Doctrine, application to cigarette advertising, 414–415

Federal Government efforts, 396–401, 649–657

funding sources, 516

Great American Smokeout day, 416–417, 426

Health Objectives for the Nation, 16–19, 433

health professional associations, 418–420 mass-media-based programs, 384–385 mortality postponed or avoided, 666–669 National Cancer Institute, 398–399, 421–423

National Heart, Lung, and Blood Institute, 399, 423–425

National Institute for Child Health and Human Development, 399–400

National Interagency Council on Smoking and Health, 395–396, 437–438 national voluntary health organizations,

394–395, 417–418 nationwide, net health consequences, 665–669

nonsmokers' rights movement, 442–443 Office of Disease Prevention and Health Promotion, 425

Office on Smoking and Health, 397–398, 421

organizational characteristics of advocacy groups, 439-440

State health departments, 427 Surgeon General's Reports, 400–401

#### ANTISMOKING MATERIALS

American Academy of Family Physicians, 420 American Cancer Society, 395 American Heart Association, 394–395 American Lung Association, 394, 414 American Society of Internal Medicine, 420

National Cancer Institute programs, 421–423

#### **ARTERIOSCLEROSIS**

aortic and coronary atherosclerosis, 60–61 claudication and aortic aneurysm mortality, 65–66

peripheral vascular disease claudication, 63, 65

## Asian Americans/Pacific Islanders See ETHNIC GROUPS

#### **ATTITUDES**

(See also ADULT USE OF TOBACCO SURVEYS; CANCER PREVEN-TION STUDIES; NATIONAL HEALTH INTERVIEW SUR-VEYS; SMOKING SURVEYS)

addictive nature of tobacco use, 200, 202 adolescents, 212–215, 216, 217–218, 227–229, 409

air pollution, health risks, 207, 209-210, 211

alcohol consumption, health risks, 207–212

asbestos exposure and smoking, lung neoplasm risk, 202

ban on free samples, 239

blacks, risk factors for cardiovascular diseases, 212

bladder neoplasms, smoking relationship,

broadcast antismoking messages, impact on public opinion, 415

carbon monoxide in tobacco smoke, 217 cessation of smoking, health effects, 219, 220

children, harmfulness of smoking, Weekly Reader survey, 215–216

chronic obstructive pulmonary disease, smoking relationship, 188, 193–194, 195

consumption of cigarettes, health risks, 184

coronary heart disease, smoking relationship, 188, 191-192

duration of smoking, health risks, 185, 186-187

smoking-and-health reports, effects on public knowledge, 519

esophageal neoplasms, smoking relationship, 195, 196 health effects of smoking, 179–181, 219, 221–222

heavy vs. light smoking, 181-184, 221

hiring of smokers, 241

inflight smoking bans, 573, 574

involuntary smoking, 200, 201, 224, 225 laryngeal neoplasms, smoking relation-

ship, 195, 196 life expectancy, risks of smoking, 206 low-yield cigarettes, health risks, 183, 185, 221

lung neoplasms, smoking relationship, 185, 186, 188, 189–190

neoplasms, smoking as risk factor, 212 nonsmokers rights, 224, 226

obesity, health risks, 207–212

oral contraceptives, interactions and risks, 197-199

peer influence on smoking, 336–338 pregnancy, dangers of smoking, 197 restrictions on smoking in public, 230–239, 578

risk models, 206-212

smokeless tobacco use, mouth and throat neoplasms, 202

smokers, personal risk, 202–204, 205 smoking-and-health advocacy groups, attempts to change public perceptions, 436–437

survey methodology, 176-178

tobacco access laws, law enforcement officials, 605-606

types of cigarettes, harmfulness, 181 women, dangers of smoking, 195, 197–199

workplace restrictions, 578, 589, 600-601

## BEHAVIOR, HUMAN

actions of smokers among nonsmokers, 227

child risk taking, 399-400

estimated risks of various activities, 160 health risk knowledge vs. smoking habit, 344–345

self-efficacy and smoking cessation, 351 self-reported smoking status, 265–266 switching cigarette types, antismoking campaign, 664–665

#### **BIOASSAY**

biochemical markers, mainstream and sidestream smoke, 94-97

smoking status validation, vs. self reports,

thiocyanates and diet, 96

#### **BIRTH DEFECTS**

parental smoking, 73, 75 cessation of smoking, 73 fetal hypoxia and carbon monoxide, 72 maternal smoking, dose–response effect, 72

#### **BLACK AMERICANS**

adolescents, smoking prevalence, 303–306
cardiovascular disease risk, beliefs, 212
initiation of smoking, 301–302
maternal smoking, 72, 73–74, 275
prevalence of smoking, 269–271
quit ratios, gender, 286
self-reported daily cigarette consumption, heavy smokers, 295
statistical bias, lung cancer risk among women, 129
tar and nicotine content, beliefs about health risks, 183, 185

#### **CALIFORNIA**

nonsmokers' rights group, proposition on 'smoking restrictions, 442 public transit bans, 513, 574 restaurant smoking restrictions, Beverly Hills, 571 Safe Drinking Water and Toxic Substances Enforcement Act, 612 San Diego study, National Clearinghouse for Smoking and Health, 397 warning labels, tobacco products, 612 workplace smoking restrictions, 570–571, 577

#### **CANADA**

ban on tobacco advertising and promotion, 516
public beliefs about addictive nature of tobacco use, 200, 202
Tobacco Products Control Act, 487
transportation smoking restrictions, 574, 588–589

## CANCER PREVENTION STUDIES (AMERICAN CANCER SOCIETY)

chronic obstructive pulmonary disease and smoker mortality, 146 comparability with other studies, 140–141 coronary heart disease and smoker mortality, 144–145 estimated relative risks, cancer, coronary and pulmonary diseases, 146–152 lung cancer and smoker mortality, 143–144

mortality, 122, 142 relative risk changes, 131–132 sampling bias and validity, 128–129

#### **CARBON MONOXIDE**

advertising guidelines, 488–489 carboxyhemoglobin, biochemical markers, 96 public beliefs about tobacco smoke constituents, 217

#### **CARCINOGENESIS**

adenomas, adenocarcinomas, and carcinomas, long-term smoke exposure, 93 polynuclear aromatic hydrocarbons and N-heterocyclic hydrocarbons, 85 tumorigenic agents in tobacco, 86–87 reduction by tobacco additives, 614

#### **CEREBROVASCULAR DISORDERS**

drug therapy efficacy, 63

estimated relative risks, 1960s and 1980s, 147–152

Japanese-American men, Hawaii, 62 mortality and morbidity, 61–62 public beliefs about smoking and oral contraceptive use, 197, 198 risk factors, 61–62, 63 women and smoking habit, 62–63

#### **CESSATION OF SMOKING**

adolescent attempts, Britain and United States, 596

advertising and promotion of tobacco, effects, 502

brand-switching as alternative, health consequences, 665–666

cardiovascular disease risk reduction, 423-424

cerebrovascular disease risk reduction, 147, 152

ethnic and demographic differences, 286–287

expectancy-value and health-belief decisionmaking models, 350–351 gender differences, 354 historical perspectives, 330, 434–436 hospital restrictions, impact, 589, 592 immediate vs. long-te<sub>1</sub>m effects of tobacco, 393

indicators of quitting activity, 285 insurance, 551–552, 552–553 lung cancer risk reduction, 55, 127 nicotine dependence, 349 outcome expectations, 352

pharmacologic processes and conditioning, 349 physician impact, 418-420 precontemplation, contemplation, and action stages, 348 pregnant women, 353, 400 public beliefs about health effects, 219, 220 reimbursement of drug treatment, 553 restrictions as incentive, 578-579 role of disease incidence, 352-353 self-efficacy model, 351-352 smoking continuum of quitting process, 288-289, 292 stage model, opportunities for older adolescents, 386 stages, 413 trends, 287 workplace policies, 354–355, 589, 563 workplace restrictions, impact, 592 young smokers, quit attempts, 392

#### CESSATION OF SMOKING, METHODS

acupuncture, 431 American Lung A

American Lung Association materials, 414

clonidine, 428

commercial programs, 427, 431–432

computer-assisted program, 431

filter systems, 430

Great American Smokeout day, 416–417 history of aids and treatments, 409–413

How to Quit Smoking workplace

program, 432

how-to-quit materials, 430

hypnosis, 431

interpersonal support, 354-355

Live for Life workplace program, 432-

lobeline sulfate capsules, 428

nicotine polacrilex gum, 428–429, 553, 616

nonpharmacologic aids, 430-431

pharmacist's antismoking materials, 425 pharmacologic cessation aids, 428–429 physician advice and materials, 418–419,

422-423

quit rates for different treatments, 410–413

Schick Stop Smoking program, 432 silver acetate, 428

Smoke Stoppers program, 433

smokeless cigarettes, 430

Smokeless program, 433

SmokEnders program, 431

#### CHILDREN

access to tobacco, 596–597, 599–603, 603–604

beliefs about harmfulness of smoking, Weekly Reader survey, 215–216

intervention approaches for young

smokers, 386

maternal smoking, long-term effects, neurological handicaps, 75–76

parental smoking effects, 336–338

penalties for tobacco possession, 603

psychosocial approaches to antismoking

education, 385

recall of cigarette advertisements, effect on smoking behavior, 505–506

revenue from tobacco sales to minors, 605 States prohibiting free tobacco samples

for minors, 599–602

Surgeon General's Reports, smoking prevention, 400–401

## CHRONIC OBSTRUCTIVE PULMONARY DISEASE

age-specific death rates, 146 attributable risks, sex ratio, 153–161 morbidity and mortality, 66–67, 71, 141.

morbidity and mortality, 66–67, 71, 141–142

pathogenesis, enzyme activity, 67

pathophysiology, emphysema and smallairway injury, 67-68

public beliefs about smoking relationship, 188, 193-194, 195

respiratory function tests, 68–70 ventilatory function, 68–71

#### CIGAR SMOKING

age-adjusted relative risks, 153 gender, age, race, socioeconomic and demographic factors, 322, 326–328 lung cancer mortality, 50 mortality, vs. pipes vs. cigarettes, 41–42 prevalence rates, men, 134

#### CIGARETTES, LOW-NICOTINE

alternative to cessation, antismoking campaign, 664–665 lung cancer mortality, 44, 46 public beliefs about health risks, 183, 185

yield, sales, consumption, 313-314

#### CIGARETTES, LOW-TAR

alternative to cessation, antismoking campaign, 664-665

changes in tobacco products, risk assessment, 139

lung cancer mortality, 44, 46

public beliefs about health risks, 183, 185, 221 safety and public perceptions, 416 yield, sales, consumption, 313–315

#### CIGARETTES, LOW-YIELD

alternative to cessation, antismoking campaign, 664–665 consumption, 658 health effects, 315–316, 666 market share, 665 public health concerns, 183, 185, 490 safety and public perceptions, 416 tar and nicotine reductions in filtered products, 85, 88

#### **COGNITION**

developmental model of smoking acquisition and prevention, 391–392
health effects of smoking, knowledge, 335–336, 344–345
Health Objectives for the Nation, 1990, public knowledge, 223–224
health warnings, effectiveness of wording and format, 484
risk assessment, understanding by public, 222
smoking cessation, 348–349, 350–351, 351–352, 353

#### **COLORADO**

Aspen, smoking ordinances, effects on business, 572

#### CONDITIONING

biological effects of nicotine, 343 environmental smoking cues, 349–350 pharmacologic effects of nicotine in smoking cessation, 349 withdrawal symptom relief, 343–344

#### CORONARY HEART DISEASE

age-specific death rates, 144–145
attributable risks, 153–161
avoidable risk from smoking, 131
Cancer Prevention Studies, risk factors
and potential bias, 128
changes in risk behavior, with smoking,
139–140
diabetes as risk factor, 59
estimated relative risks, 147–151
myocardial infarct risk, mortality and
treatment, 58–59, 61
nonsmoker mortality, 141–142
pathophysiologic mechanisms, 60–61
public beliefs about smoking relationship,
188, 191–192

risk factors and smoking, 59-60 smoking cessation effects, 61 survey of patients' siblings on risk factors, smoking, 212

#### **DEMOGRAPHIC FACTORS**

bias in risk assessments, 128
cigar and pipe smoking, 327–328
education, 269, 271, 286, 287, 289–290,
292, 301–302, 303–306, 316
gender, 276, 322–326
gender, socioeconomic, and personality
variables, smoking habit, 329
personal characteristics and smoking, 347
region, gender, education, and smoking
prevalence, 279, 282–283
smoking cessation and relapse, 353
variation among antismoking strategies,
408–409

#### DIET

cholesterol, 207, 209–210, 212 hypercholesterolemia, 139–140 lung cancer and protective effects of vitamins, 54

#### **DRUG ABUSE**

adolescent beliefs, smoking vs. other substance use, 214, 215
cigarettes as a "gateway drug," 399
integration of smoking prevention
programs into substance abuse
programs, 401
marijuana smoking, public beliefs, 207,
211
school health education programs, 388–
389

#### **ECONOMICS**

ban on cigarette sales, public opinion, 235, 237 cigarette prices in military commissaries, consumer demand and production factors, 660-661 institutional dependence on tobacco industry, effect on consumption, 502 price elasticity, 533-538, 662-664 public service announcements, effects on cigarette consumption, 498 public transit advertising ban, impact, 514-515 restaurant smoking ban, effect on business, Aspen, 572 trends in per capita cigarette consumption, 267-268

#### **Education**

#### See DEMOGRAPHIC FACTORS: **HEALTH EDUCATION**

#### **EMPHYSEMA**

airflow obstruction, 67-68 morbidity and mortality, chronic obstructive lung disease, 66-68 protease-antiprotease activities in pathogenesis, 67 public beliefs about smoking relationship, 188, 193-194, 195

#### Environmental tobacco smoke See INVOLUNTARY SMOKING

#### **ETHNIC GROUPS**

(See also BLACK AMERICANS) Asian Americans, Hawaii, smoking

prevalence, 275 cigar and pipe smoking, 327-328 Hispanics, smoking prevalence, 274 Native Americans and Alaskan Natives, smoking prevalence, 274 race and smoking continuum, 289, 291, 292

racial differences in smoking onset and prevalence, 338 smokeless tobacco use, 322-324

tar yields and menthol cigarettes, 316

#### **EX-SMOKERS**

age factors, 136 attributable risk, lung cancer, and women, 127 health benefits of smoking cessation, 666, 667 lung cancer risk reduction, 55

measurement of quitting activity, 285 mortality, sex ratio, 147-152 prevalence, 132-134, 288-289 public beliefs about risk reduction after smoking cessation, 219, 220 self-attained cessation of smoking, 413

#### **FILTERS**

lung cancer mortality, 44, 46 reduction of toxic and tumorigenic agents in cigarettes, 85 sales, consumption, 313-314 shift from unfiltered, antismoking campaign, 664-665 use, lower yield cigarettes, 138-139

fire-safe cigarettes, development and feasibility, 614

insurance, smoking-related deaths and damage, 550 smoking-related deaths, 614

#### Former smokers

#### See EX-SMOKERS

#### **HEALTH EDUCATION**

advocacy group activities, 438 budgets of Federal agencies, 520-523 Comprehensive Smokeless Tobacco Health Education Act, 478, 481, 490, 511, 512, 518 Comprehensive Smoking Education Act, 478, 479, 481, 490, 512, 517-518 Department of Defense, 426, 521 integration of programs with policy initiatives, 383 national goals, 16-19 National Heart, Lung, and Blood Institute, Smoking Education Program, national voluntary health organizations, 394-395, 413-418 prevention of smoking programs, 335-336, 385, 397-398, 401-402, 403-405, 406, 407-408

school-based programs, 388-389, 390, 391, 491-494 Surgeon General's Reports, smoking prevention, 401

teacher training, State requirements, 494,

youth programs, cessation of smoking, 392-393

#### **Hispanic Americans** See ETHNIC GROUPS

designated smoking areas in hospitals, 586

#### Inhalation patterns

See SMOKING CHARACTERISTICS

#### INITIATION OF SMOKING

advertising and promotion of tobacco, 501 age, adults vs. adolescents, 296 campaign-related decreases, 666-667 delay, smoking prevention programs, 406 developmental stages models, 385-386 knowledge of health effects, 335-336 lung cancer mortality, men, 45 National Institute for Child Health and Human Development, 399-400 peer pressure, 389-390

pharmacologic processes and conditioning, 333–335 prevalence of smoking, 135–136, 137 price effects, 537–538 risk personalization, 215 social influence and life skills training ap-

proaches, 390–391 trends, gender, race, and education, 301

#### **INSURANCE**

auto, 550-551

biochemical validation of smoking status, life insurance, 545

coverage of smoking cessation treatment, 552-553, 557

nonsmoker premium discounts, 543, 544, 546–551

premium calculations, smoking status, health maintenance organizations, 548 premium differentials, incentives to stop smoking, 551–552

#### INVOLUNTARY SMOKING

biochemical markers, 95-97

exposure risks, lung cancer, nonsmoking women, 77-78

Federal workplace policy to limit exposure, 575

indoor air pollution, lung cancer risk, 53-

nonsmokers' rights movement, 442-443 public annoyance, survey results, 224, 225 public beliefs about risk, 200, 201

regulation of environmental tobacco smoke, 613

sidestream effects, toxic and tumorigenic agents, 88-91

workplace exposure, restriction rationales, 580-581, 594

#### **LABELING**

Federal Cigarette Labeling and Advertising Act of 1965, 7, 475–476, 477, 482, 518, 519

Federal Trade Commission requirements, 475–476

health warnings, 479–482, 484–487, 612 nicotine polacrilex gum package inserts, 482

oral contraceptives, 481-482

oral snuff warning labels, Massachusetts, 612

Palmer v. Liggett, 612 public opinion, 241, 242

#### **LEGISLATION**

(See also TAXATION)

Cigarette Labeling and Advertising Act, 441

Clear Indoor Air Acts 558

Clean Indoor Air Acts, 558, 572, 613

Comprehensive Smokeless Tobacco Health Education Act, 443, 478, 481, 490, 511, 512, 518, 612

Comprehensive Smoking Education Act, 398, 437, 443, 478, 479, 481, 490, 512, 517–518

Consolidated Omnibus Budget Reconciliation Act, 443

Consumer Product Safety Act, 611 Controlled Substances Act, 610–611 Federal Cigarette Contraband Act, 534 Federal Cigarette Labeling and Advertising Act of 1965, 7, 19, 137, 475–476, 482, 517, 518

Federal Food, Drug, and Cosmetic Act,

Federal Hazardous Substance Labeling Act, 610, 611

Food and Drugs Act of 1906, 608–609 Little Cigar Act, 477, 486, 511 Minnesota Clean Indoor Air Act, 558 Occupational Safety and Health Act, 612–613

Omnibus Budget Reconciliation Act, 528 Public Health Cigarette Smoking Act, 441, 476, 477, 496, 511, 512, 517, 518,

Public Health Service Act, 613
Safe Drinking Water and Toxic Substances Enforcement Act, 612

tobacco access laws, 597–598, 606, 607–608

Tobacco Products Control Act, Canada, 487

Toxic Substances Control Act, 611

#### LITIGATION

Action on Smoking and Health v. Harris, 611

American Public Health Association v. Consumer Product Safety Commission, 611

Austin v. Tennessee, 598 Cippollone v. Liggett, 611–612 Federal Trade Commission v. Brown and Williamson, 489, 511

Federal Trade Commission v. Liggett and Myers, 608–609

Federal Trade Commission v. R.J. Reynolds, 512 Illinois Cigarette Service Co. v. City of Chicago, 598 Mutual Benefit Life Insurance Company v. JMR Electronics Corp., 545–546 Palmer v. Liggett, 612 Parker v. City School Superintendent, 606 U.S.A. v. Liggett, 476 U.S.A. v. R.J. Reynolds, 476

# Lobbying See ADVOCACY

#### **LUNG NEOPLASMS**

age-specific mortality rates, 143–144 asbestos exposure, smoking and risk, 202 dose-response relationships, 43–46 familial determinants, 52 female mortality, 46–49, 125–126 histologic type, 50–51 inhaled tobacco carcinogens, 93 International Classification of Diseases, 130 male mortality, 44–45 nonsmoker mortality, 141–142 public beliefs, smoking and risk, 185, 186, 188, 189–190, 202 radon and risk, 53–54 vitamins, protective effects, 54

#### MASS MEDIA

American Cancer Society, television advertisements, smoking cessation, 414
American Lung Association, series for news broadcasts, 417–418
broadcast ban of tobacco advertisements, 496, 511
Cigarette Advertising Code, 511
coverage of smoking and health related to cigarette advertisers, 509
national voluntary health organizations, television campaigns, 415–416
news media coverage of health risks, 222
public service announcements, 497–500
video news releases, 388

advertising restrictions, 239-240

advertising revenues, 502, 508-510

### **MASSACHUSETTS**

availability of tobacco to adolescents, 604–605 Cambridge, smoking restrictions, 577 local smoking ordinances, prevalence, 572 oral snuff, warning labels, 612 public opinion about smoking restrictions, 578 public transit advertising ban, 513

#### MATERNAL SMOKING

birth defects, dose-response, 72 blacks, 72, 73-74, 275 demographic factors, 275-276 fetal and perinatal mortality, 73 hypoxia, fetal and neonatal effects, 72 infant birthweight, 72-73 infant mortality, 73-74 long-term effects, 75-76 National Institute for Child Health and Development, 400 neurological handicaps, 75-76 public beliefs about smoking effects, 195, 197, 221 socioeconomic status, 276 spontaneous abortion and chromosomal abnormalities, 73

#### MATHEMATICAL MODELS

attributable risks from cigarette smoking, 153–161
attributable, relative, and absolute risks, hazardous exposure variables, 123–125 avoidable deaths from cancer and coronary heart disease, 131 consumption patterns, changes in smoking-and-health environment, 662–664 dose–response relationships, 44 lung cancer rates among females, 125–126 mortality postponed or avoided, 666–669 smoking prevalence, 270, 651–657 synergy of radon exposure and cigarette smoking, 125

#### **MINNESOTA**

Clean Indoor Air Act, 558
excise funding of smoking prevention
program, 402
hospital smoking ban, 586
smoking control program, 524, 542
stadium advertising ban, 573

#### **MORTALITY**

## (See also MATHEMATICAL MODELS)

age factors, 41–42, 45 all and specific causes, smokers and exsmokers, 146–152 attributable risks from smoking, 130– 132, 154–156, 206–207 cancer, 47, 48

cardiovascular and respiratory disease, cancer, 39-40 diabetes and coronary heart disease, 59 esophageal neoplasms, 56 laryngeal neoplasms, 56 misclassification of cause, International Classification of Diseases, 130 oral neoplasms, 56 overall rates, 38-41 pancreatic neoplasms, 56-57 postponed deaths, campaign-induced, 666-669 public beliefs about risks, 206 relative risk, lung cancer, women, 126 smoker vs. nonsmoker, 544-545 smoking-attributable total, 160 statistical bias, lung cancer risk among women, 129 stomach neoplasms, 57 stroke, 61-62, 64 tax-related changes, 540

#### MULTIPLE RISK FACTOR INTER-VENTION TRIAL (MRFIT)

advertising by R.J. Reynolds, misrepresentation of study, 512 mortality and morbidity, smoking habit, 41

program history, National Heart, Lung, and Blood Institute, 423–424

## NATIONAL HEALTH INTERVIEW SURVEYS (NHISs)

daily cigarette consumption, 292-293, 295

gender, race, education, 267, 269–270 initiation of smoking, 297, 301 methodology and scope, 250–251 population-weighted mortality data, 122 prevalence data, self-respondents and proxies, 132–133 quit ratios, 286, 287 sampling errors, 129 smokeless tobacco use, 319–320

smoking prevalence, 272-274, 298, 299

## Native Americans or Alaska Natives See ETHNIC GROUPS

#### **NEOPLASMS**

attributable risks, sex ratio, 1965 and 1985, 153–161 avoidable risk from smoking, 131–132 bladder and kidney, smoking doseresponse, 56 public beliefs about smoking risk, 212

#### **NEW YORK**

Clean Indoor Air Act, 572 commuter rail smoking ban, 573 compliance with restaurant smoking restrictions, 577 public opinion about smoking restrictions, 577–578 workplace smoking policies, 582

#### **NICOTINE**

advertising guidelines, 488–489
alkaloids in tobacco, 79
biochemical marker, 95–97
conditioning and smoking, neurohumoral
effects, 343
deposition, absorption, and metabolism,
93–94
historic perspective, smoking behavior,
329–330
metabolism, 94–96
peptic ulcer, 76
proposed Federal regulation of cigarette
content, 610
regulation of blood level, 342
trend for cigarette content, 88

#### NICOTINE DELIVERY

alternative products, 615–616 nicotine aerosols, 616 nicotine polacrilex gum, 616 reduced-smoke cigarettes, 617 smokeless cigarettes, 318–319 tobacco chewing gum, 616 tobacco toothpaste, 616

# Nicotine polacrilex gum See NICOTINE DELIVERY; CESSATION OF SMOKING, METHODS

#### **NONSMOKERS**

beliefs about personal risks of smoking, 203, 204
health claims, 549
insurance premium discounts, 546–548
lung disease, involuntary smoking, 77–78
mortality rates, 141–145
prevalence, 288–289
workplace smoking restriction, 575, 584, 590, 591

#### Nonsmokers' rights See ADVOCACY

#### OCCUPATIONAL DISEASES

asbestos exposure, public beliefs about smoking risks, 202

workplace exposures, lung cancer risk, 52-53, 128

#### OCCUPATIONS

blue-collar workers, 272–274 industry type, 585 managers, 585 military personnel, 277–278, 347, 425–427 white-collar workers, 272

# Passive smoking See INVOLUNTARY SMOKING

#### PEER GROUPS

initiation and maintenance of smoking, 336–338 smokers vs. abstainers, 355 social support, smoking, and cessation, 354–355

#### **PERCEPTION**

485
positively perceived effects of smoking, 342
social acceptability of smoking, 347

health risks of smoking, health warnings,

#### **PERSONALITY**

extraversion, 336, 345

internal vs. external locus-of-control dimension, 346 marketing campaigns and personality characteristics, 339 negative affect smoking, 346 neuroticism, delinquency, and smoking status, 336 psychosocial factors, smoking habit, 329 relapse rates after smoking cessation, 353

#### PIPE SMOKING

age-adjusted relative risks, 153 lung cancer mortality, 50 mortality, vs. cigars and cigarettes, 41–42 prevalence among men, 134 socioeconomic and demographic factors, 322, 326–328

## PREVENTION OF SMOKING, PROGRAMS

American College of Chest Physicians, 419–420 American Nonsmokers' Rights Foundation, 402 American Pharmaceutical Association.

423

construct validity, 406-407

demographic and historic factors, 408-Department of Defense, 425-427 design and target audiences, trends, 384 dissemination, 403-405 evaluation, 405 Federal Government support, agencies and reports, 396-401 Federal guides of existing resources, 396 general school health education levels, Great American Smokeout day, 416-417 health professional organizations, 402-403 historic perspective, 330 long-term followup, 406 mass media, 387-388 National Cancer Institute, 398-399, 421-423 National Heart, Lung, and Blood Institute, 399, 423-425 National Institute on Drug Abuse, 399 National Interagency Council on Smoking and Health, 395-396 Office of Disease Prevention and Health Promotion, 400, 425 Office on Smoking and Health, 397-398, 421 psychosocial curricula, 389-392 school health education, 388-389 State, 401-402, 427 voluntary health organizations, 394-395, 407-418

#### **POLICIES**

workplace, 425, 432-434

youth, 392-393

advertising imagery and content, proposals, 515 categorization of tobacco control efforts, 472, 473 educational and behavioral interventions and initiatives, 383 Fairness Doctrine, 441-442, 496, 660-661 Health Objectives for the Nation, 16-19, history of smoking-and-health research and regulation, 5-6 national goals for insurance, nonsmoker premiums and actuarial data, 553-555 restriction of advertising and promotion, 515-516 restriction of smoking, impact on per capita consumption, 661-662

taxonomy of workplace smoking policies, 581

trends, 409-413

warning labels, Federal Trade Commission requirements, 475–476

#### **PROMOTION**

(See also ADVERTISING)

decreased motivation to stop smoking, 502
encouragement of smoking initiation, 501
encouragement of recidivism, 502
expenditures, 499–500
free distribution of tobacco products, 239, 513, 514, 597, 603–604
nicotine polacrilex gum, 429
proposed restrictions, 515
States prohibiting tobacco sales to minors, 599–602

#### Public service announcements

tobacco consumption, 501-502

See ADVERTISING; ADVOCACY; HEALTH EDUCATION; SMOK-ING CONTROL PROGRAMS

#### RECIDIVISM

advertising and promotion of tobacco, 502 body weight and smoking cessation, 354 coping responses, 350 gender differences, 354 prevention strategies, 410, 413 socioeconomic and demographic factors, 353 stress, negative affect, 349 triggers to relapse, 349–350

#### RESTRICTION OF SMOKING

airplanes, 232, 573-574, 588-589

airports, 574
Clean Indoor Air Act, New York, 572
consumption impact, 591–592, 661–662
Department of Defense, 575
economic impact, 594–595
educational institutions, 561–568, 587–588
Federal Government workplaces, 574–575
fire hazards, 557
health care facilities, 561–568, 585–586, 561–562

industry type and prevalence of smoking policy, 585 local ordinances, 570–572, 577

local ordinances, 570–572, 577 penalties for noncompliance, 561–568 pharmacies, 587

physician offices and medical organizations, 586 provisions of laws, 560, 568 public places, 232-233, 556-557, 558 public transportation, 561-568, 573, 574 regional variation, 570, 571 restaurants and hotels, 235, 236, 569, 570, 577 State laws, 558-560, 561-569, 569-570, 599-602 target occupational groups, 595 tobacco access laws, 603, 604-606, 607trends in public beliefs, 230-231 vending machines, access, 603-604 workplace policies, 232, 561-568, 600-601, 577, 581–585, 590, 591, 593, 594– 595

#### SEX RATIO

age-specific death rates, 144-145, 146 antismoking campaign effects, 650-657 attributable risks for cancers, coronary and pulmonary diseases, 154-156 initiation of smoking, 296-300 lung cancer mortality, 46 mortality postponed or avoided, 667, 668-669 nonsmoker mortality, 141-142 self-reported daily cigarette consumption, 295 smokeless tobacco use, 320-322 smoking cessation and relapse, 354 smoking continuum, 289-290 smoking prevalence, 132-133, 134-135, 136-137, 138, 269-270, 272, 279, 282-283, 298, 301, 302, 303-305, 307-312, 316

#### **SMOKE STREAMS**

mainstream chemical analysis, vapor and particulate phases, 79–85 sidestream effects, toxic and tumorigenic agents, cigarettes, 88–91

#### **SMOKELESS TOBACCO**

advertising strategy, graduated use, 507 antismoking pamphlet, American Dental Association, 420 Comprehensive Smokeless Tobacco Health Education Act, 478, 481, 490,

511, 512, 518 disclosure of nicotine content, requirements, 500

Federal excise tax, 528

health warning requirements, 478, 479, 480, 481 nitrosamine formation and oral cancer, 90,92 snuff-dipping and oral cancer. leukoplakia, 78 State excise taxes, 529

#### SMOKELESS TOBACCO USE

adolescents, 217, 393 National Cancer Institute prevention programs, 398 prevalence among males, 319-322, 325-326, 657 public beliefs, mouth and throat neoplasms, 202

SMOKING BEHAVIOR adults, 134-135, 140, 298, 302 advertising effects, 501-502, 506-507 appetitive model, smoking cues, 344 Asian Americans, 275 chronic obstructive pulmonary disease. cigarette consumption, 267-268, 293-294, 518-519, 592, 657-662 determinants of smoking, stages, 334 development, maintenance, cessation, 331-332, 334 estimated prevalence in absence of antismoking campaign, 651-657 gender, race, education, 269-270, 302heavy vs. light smoking, 181-184, 221 Hispanics, 274 intensity, biochemical markers, 95-97 maintenance, pharmacologic processes and conditioning, 340, 342 men, 269-270 military personnel, 276-278, 575 Native Americans, 274 nicotine dependence, 331, 349 opponent-process theory, aversive withdrawal symptoms, 343-344 oral contraceptive use, 140 personal characteristics, 336, 345-347 pregnant women, 275-276 price elasticity and smoking prevalence, 536-539 public beliefs about duration and health risks, 185, 186-187 public service announcements, 497-500, self-reported status vs. biochemical

validation, 265

socioeconomic and demographic factors, 329 State legislative impact, 578-579 State-specific prevalence, 280-281 Third World countries, 19 workplace policies, 584, 589, 591-592

#### **SMOKING CHARACTERISTICS**

compensation, 316, 317 inhalation patterns and lung cancer mortality, 45 length of cigarette, market share, 317-318 menthol cigarettes, inhalation, 317 sex ratio, 132-133

#### SMOKING CONTROL PROGRAMS

hospital prohibition of cigarette sales, 586 knowledge among smokers about health effects, 221 Minnesota, 525, 542 Office on Smoking and Health, 397 Rocky Mountain Tobacco-Free Challenge, 524 tobacco taxes as funding source, 542-543 Utah, excise revenues, 542

#### **SMOKING SURVEYS**

(See also ADULT USE OF TOBACCO SURVEYS; CANCER PREVEN-TION STUDIES; NATIONAL **HEALTH INTERVIEW SURVEYS)** 

American Medical Association, 247 Behavioral Risk Factor Surveillance System, 247-248, 278-279, 280-281 Chilton Survey, 1979, 248 Collaborative Perinatal Study, 276 Current Population Survey, 248, 279, 282-283, 322 Department of Defense, 276-278, 427 Gallup Surveys, 248-249 High School Seniors Surveys, 296, 302-303, 306 Hispanic Health and Nutrition Examination Survey, 251, 274 Lieberman Research, Inc., 249 methodology, public attitudes on health effects of smoking, 175-177 National Adolescent Student Health Surveys, 250, 296-297, 306-307 National Health and Nutrition Examination Surveys, 251 National Household Surveys on Drug Abuse, 312 National Institute on Drug Abuse High School Seniors Surveys on Drug Use, 251-252

National Maternal and Infant Health Survey, 275
National Natality Surveys, 275
National Survey of Family Growth, 276
Native Americans and Alaskan natives, 274
Roper surveys, 252–253
teenagers, 307–309, 310–312

U.S. Department of Health, Education, and Welfare Teenage Smoking Sur-

#### **SNUFF**

ban on sales, 617–618 marketing and labeling, 615 warning labels, Massachusetts, 612

#### **SNUFF-DIPPING**

veys, 253

adolescents, beliefs about harmfulness, 217, 218 adults, 1964 to 1986, 319–322 males, 319–322 prevalence and proposed ban, 615

#### SOCIOECONOMIC STATUS

birthweight and maternal smoking, 73 blacks vs. whites, smoking prevalence, 269–270 cessation and relapse, 353 cigar and pipe smoking, 328 educational level and occupation, 139 personal characteristics and smoking, 347 pregnant women, 276 smokeless tobacco use among males, 322–323 students with blue-collar backgrounds,

#### **SOUTH CAROLINA**

408

local smoking restrictions, 572

#### STATISTICAL ANALYSIS

(See also MATHEMATICAL MODELS; SMOKING SURVEYS) adolescent smoking, weekly vs. daily

rates, 307, 312 advertising expenditures and tobacco consumption, 504–505 age adjustment and relative risk, 127

aggregation vs. precision, lung cancer risk among women, 127

attributable risk, causation, and mortality, 122–123

bias in risk assessments, 128 Cancer Prevention Studies, age adjustment of relative risks, 141 data errors, exposures and causes of death, 129–130 data sources, 264 methodology of public opinion surveys, 175–178 per capita consumption studies, 657–658 risk factor interaction with smoking, 50–51 synergy and statistical bias, 128

#### **STRESS**

public beliefs about risks of smoking, 207–210, 212 reduction, biological effects of nicotine, 346–347

consumption and initiation, smoking

## smoking cessation and relapse, 353

adolescents, personalization of smoking risks, 215
beliefs on health effects of smokeless tobacco, 217, 218
litigation, school smoking lounges, 606 parental awareness of school-based

programs, 387 program failure to reach dropouts, 407–

school health education curricula, 388–389

school smoking restrictions, 587-588

#### TAR CONTENT

advertising guidelines, 488–489 chemical analysis of particulate matter in mainstream smoke, 83–84 proposed Federal regulation of cigarettes, 610 reductions, 85, 88, 617 smokers' gender, age, race, education, 316

#### **TAXATION**

cigarette price changes, 662 evasion of cigarette taxes, cigarette bootlegging, 531–533, 541 excise taxes, 264 Federal and State tobacco tax increase, effects, 541 Federal excise tax, 527–528, 529, 530, 540

ad valorem tax on cigarettes, revenues,

Indiana, cigarette excise tax, 542 licensing requirement for tobacco sales, 604

Minnesota, cigarette excise tax, 402, 525
Nebraska, cigarette excise tax, 542
price elasticity of demand, 533-538
sales tax exemption, 541
smoking-related deaths, effects of tax
rates, 540
State and local excise rates and
prevalence, 528-532
tax-exempt cigarette sales, impact on
States, 533
tobacco tax revenues for State smoking
control programs, 542-543
unit tax on cigarettes, 542
Utah, cigarette excise tax, 542

#### **TEXAS**

smoke-free hospital rooms, 586 workplace smoking restrictions, 583

#### **TOBACCO ADDITIVES**

changes in cigarettes, 139 disclosure requirements, 490 menthol cigarettes, health effects, 317 pesticide traces, 82, 85 reduction of carcinogens, 614 risks and disclosure, 613

#### **TOBACCO INDUSTRY**

advertising refuting claims about harmfulness of smoking, 511–512
censorship of smoking and health items, 509–510
Cigarette Advertising Code, 511
code regarding free samples, 597
compliance with health warning legislation, 476, 483
disincentives to advertise, 516
lobbying efforts, 440–441
marketing of low-yield cigarettes, 665
restrictive policies, 595
vending machine sales, 604

### TOBACCO SMOKE

physical chemistry, carcinogenic and mutagenic effects, 79–85 tar and neoplasms, 93 toxicity and carcinogenicity, 92–93

#### **UTAH**

public transit advertising ban, 513 smoking control program, 542

#### **UTERINE NEOPLASMS**

cervical cancer, smoking and other risk factors, 57–58 endometrial and cervical cancers, risk vs. protective factors, 152 endometrial cancer and estrogen levels, 58

#### VIRGINIA

local smoking restrictions, 572

#### **WOMEN**

353-354

stroke and smoking habit, 62-63

all-cause and specific mortality, 146-147, 149, 151–152 attributable risk, cancers, cardiovascular and pulmonary diseases, 157-158 attributable risk, lung cancer, 126 cancer mortality risk, 47 cervical and endometrial cancer, 57-58 fertility and smoking, 75 initiation of smoking, 299, 300, 301, 302 lung cancer mortality risk, 46-49, 144 mortality postponed or avoided, smoking cessation or noninitiation, 667, 668-669 National Institute for Child Health and Human Development, cessation of smoking program, 400 oral contraceptive use, 140, 197-199, 481-482 osteoporosis, calcium intake, estrogen, and obesity, 76-77 pregnancy, dangers of smoking, public beliefs, 195, 197-199, 221 pregnancy, demographic factors, smoking prevalence, 275-276 pregnancy, smoking cessation programs, 418, 427 public beliefs about dangers of smoking, 195, 197-199 response to antismoking campaigns, 650-651, 653-657 smoking prevalence, 1965 to 1987, 269-270 stress, smoking cessation and relapse,